	Application No.	Applicant(s)
Notice of Allowability	10/771,848	LIANG ET AL.
	Examiner	Art Unit
	John L. Goff	1733
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the application filed 2/4/04.		
2. The allowed claim(s) is/are 27-57.		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/04,6/04,12/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	 5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendan 8. ☑ Examiner's Statemen 9. ☐ Other 	(PTO-413), e

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-26 and 58-66, drawn to a liquid crystal display, classified in class 428, subclass 1.5.
 - II. Claims 27-57, drawn to a method of sealing a liquid crystal display, classified in class 156, subclass 292.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process step of hardening the photoalignable sealing composition may be preceded by the extra step of adding a catalyst to the sealing composition to accelerate the process step of hardening.

- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the

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inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

- 5. During a telephone conversation with Viola Kung on 9/26/06 a provisional election was made without traverse to prosecute the invention of Group II, claims 27-57. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-26 and 58-66 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Examiner's Amendment

- 7. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 8. Authorization for this examiner's amendment was given in a telephone interview with Viola Kung on 9/26/06.

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9. The application has been amended as follows:

In the Claims:

10. Cancel non-elected claims 1-26 and 58-66.

Reasons For Allowance

11. The following is an examiner's statement of reasons for allowance:

WO 02/01281 discloses it was known to top seal a micro-cup of a liquid crystal display by predispering a sealing composition into a liquid crystal composition, filling the predispersion into the micro-cup, and hardening the sealing composition after phase separation to seal the micro-cup. WO 02/01281 alternatively suggest overcoating the sealing composition. However, there is no teaching or suggestion of using a sealing composition that is also photoaligned to form an aligned alignment layer. Yu et al. (U.S. Patent 6,060,581) disclose it was known to form a liquid crystal display including applying a photoalignable composition to two substrates, photoaligning the photoalignable composition, sandwiching a spacer between the two substrates to form a gap, and filling the gap with a liquid crystal composition. However, there is no teaching or suggestion of the photoalignable composition acting as a sealing layer for the liquid crystal composition that is hardened after the liquid crystal composition is applied between the substrates.

The prior art of record fails to teach or suggest a process for top-sealing a display cell of a liquid crystal display comprising filling the cell with a liquid crystal composition and a photoalignable sealing composition which is either predispersed in the liquid crystal composition or overcoated over the liquid crystal composition followed by hardening the photoalignable

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sealing composition to seal the display cell and aligning the photoalignable sealing composition to form an aligned alignment layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John L. Goff** whose telephone number is **(571) 272-1216**. The examiner can normally be reached on M-F (7:15 AM - 3:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John L. Goff

JEFF H. AFTERGUT PRIMARY EXAMINER GROUP 1300